

Claims

- 1 1. An anhydrous composition for topical delivery of one or more medicaments,
- 2 said composition comprising:
 - 3 (A) a penetration enhancer/solvent selected from the group consisting of alcohol,
 - 4 propylene glycol, or a combination thereof;
 - 5 (B) a humectant/solvent selected from the group consisting of polyethylene
 - 6 glycol, glycerin, sorbitol, xylitol, or any combination of the foregoing; and
 - 7 (C) an anhydrous vehicle.
- 1 2. A composition as defined in claim 1, wherein said penetration
- 2 enhancer/solvent is ethanol.
- 1 3. A composition as defined in claim 1, wherein said humectant/solvent is
- 2 glycerin.
- 1 4. A composition as defined in claim 1, wherein said anhydrous vehicle is an
- 2 alcohol which is the same as or different from said penetration enhancer/solvent.
- 1 5. A composition as defined in claim 1, further comprising:
 - 2 (D) an emollient;
 - 3 (E) a chelating agent;

- 4 (F) a pH adjuster;
- 5 (G) an antioxidant;
- 6 (H) a gelling agent;
- 7 (I) a viscosifier;
- 8 (J) a colorant;
- 9 (K) a fragrance;
- 10 (L) a UV stabilizer;
- 11 (M) a sunscreen; or
- 12 (N) any combination of any of the foregoing.

1 6. A composition as defined in claim 5, wherein said pH adjuster is selected from
2 the group consisting of malic acid, lactic acid, citric acid, glycolic acid, benzoic acid, ascorbic
3 acid, or any combination of any of the foregoing.

1 7. A composition as defined in claim 5, wherein said antioxidant is selected from
2 the group consisting of propyl gallate, ascorbic acid, ascorbyl palmitate, butylated
3 hydroxyanisole (BHA), butylated hydroxytoluene (BHT), tocopherol, or any combination of any
4 of the foregoing.

1 8. A composition as defined in claim 5, wherein said viscosifier is hydroxypropyl
2 cellulose.

1 9. A composition as defined in claim 5, comprising from about 1.0 to about 50
2 percent by weight of said penetration enhancer/solvent, from about 10 to about 80 percent by
3 weight of humectant/solvent, from 0 to about 10 percent by weight of emollient and aesthetic
4 enhancer combined, from 0 to about 2 percent by weight of chelating agent and pH adjuster
5 combined, from 0 to about 2 percent by weight of antioxidant, from 0 to about 5 percent by
6 weight of gelling agent and viscosifier combined, and an anhydrous vehicle, based upon 100
7 percent by weight of total composition.

1 10. A composition as defined in claim 9, wherein said gelling agent comprises
2 hydroxypropyl cellulose in an amount of about 3 percent by weight based upon 100 percent by
3 weight of total composition.

1 11. An anhydrous composition for topical delivery of one or more medicaments,
2 said composition comprising:
3 (A) a penetration enhancer/solvent selected from the group consisting of alcohol,
4 propylene glycol, or a combination thereof;
5 (B) a humectant/solvent selected from the group consisting of polyethylene
6 glycol, glycerin, sorbitol, xylitol or any combination of any of the foregoing;
7 (C) an anhydrous vehicle; and
8 (D) one or more medicaments.

1 12. A composition as defined in claim 11, wherein said medicament is
2 solubilized.

1 13. A composition as defined in claim 11, wherein said penetration
2 enhancer/solvent is ethanol.

1 14. A composition as defined in claim 11, wherein said solvent is glycerin.

1 15. A composition as defined in claim 11, wherein said anhydrous vehicle is an
2 alcohol which is the same as or different from said penetration enhancer.

1 16. A composition as defined in claim 11, wherein said medicament is selected
2 from the group consisting of an antifungal agent, an antibacterial agent, an antiviral agent, an
3 acne agent, an antiaging agent, an antipruritic agent, a photoprotection agent, a skin pigment
4 modulator, a hair growth enhancer, a hair growth inhibitor, a hair removal agent, an antidandruff
5 agent, an anti-seborrheic agent, an anti-psoriasis agent, an exfoliating agent, a wound healing
6 agent, an anti-ectoparasitic agent, a serum modulator, an immunomodulator, a hormone, a
7 botanical, a moisturizer, an astringent, a cleanser, a sensate, an antibiotic, an anti-irritant, an
8 anesthetic, an analgesic, a steroid, an anti-inflammatory, a tissue healing substance, a tissue
9 regenerating substance, a vitamin, an amino acid, a peptide, a mineral, a hydroxy acid, or any
10 combination of any of the foregoing.

1 17. A composition as defined in claim 16, wherein said medicament is selected
2 from the group consisting of an antifungal agent, a retinoid, an antibiotic, a glucocorticosteroid,
3 or any combination of any of the foregoing.

1 18. A composition as defined in claim 17, wherein said medicament is an
2 imidazole.

1 19. A composition as defined in claim 17, wherein said medicament is
2 ketoconazole.

1 20. A composition as defined in claim 17, wherein said medicament is desonide.

1 21. A composition as defined in claim 17, wherein said medicament is tretinoin.

1 22. A composition as defined in claim 11, further comprising:
2 (E) an emollient;
3 (F) a chelating agent;
4 (G) a pH adjuster;
5 (H) an antioxidant;
6 (I) a gelling agent;
7 (J) a viscosifier;
8 (K) a colorant;

- 9 (L) a fragrance;
10 (M) a UV stabilizer;
11 (N) a sunscreen; or
12 (O) any combination of any of the foregoing.

1 23. A composition as defined in claim 22, wherein said pH adjuster is selected
2 from the group consisting of malic acid, lactic acid, citric acid, glycolic acid, benzoic acid,
3 ascorbic acid, or any combination of any of the foregoing.

1 24. A composition as defined in claim 22, wherein said antioxidant is selected
2 from the group consisting of propyl gallate, ascorbic acid, ascorbyl palmitate, butylated
3 hydroxyanisole (BHA), butylated hydroxytoluene (BHT), tocopherol, or any combination of any
4 of the foregoing.

1 25. A composition as defined in claim 22, wherein said viscosifier is
2 hydroxypropyl cellulose.

1 26. A composition as defined in claim 22, comprising from about 1.0 to about 50
2 percent by weight of said penetration enhancer/solvent, from about 10 to about 80 percent by
3 weight of humectant/solvent, from about 0.0001 to about 20 percent by weight of medicament,
4 from 0 to about 10 percent by weight of emollient and aesthetic enhancer combined, from 0 to
5 about 2 percent by weight of chelating agent and pH adjuster combined, from 0 to about 2

6 percent by weight of antioxidant, from 0 to about 5 percent by weight of gelling agent and
7 viscosifier combined, and anhydrous vehicle based upon 100 percent by weight of total
8 composition.

1 27. A composition as defined in claim 24, wherein said gelling agent comprises
2 hydroxypropyl cellulose in an amount of about 3 percent by weight based upon 100 percent by
3 weight of total composition.

1 28. A composition as defined in claim 26, wherein said medicament comprises
2 antifungal agent in an amount of from about 0.05 to about 3 percent by weight based upon 100
3 percent by weight of total composition.

1 29. A composition as defined in claim 26, wherein said medicament comprises
2 ketoconazole in an amount of from about 0.5 to about 3 percent by weight based upon 100
3 percent by weight of total composition.

1 30. A composition as defined in claim 26, wherein said medicament comprises
2 ketoconazole in an amount of about 2 percent by weight based upon 100 percent by weight of
3 total composition.

1 31. A composition as defined in claim 26, wherein said medicament comprises
2 glucocorticosteroid in an amount of from about 0.0001 to about 10 percent by weight, based
3 upon 100 percent by weight of total composition.

1 32. A composition as defined in claim 26, wherein said medicament comprises
2 glucocorticosteroid in an amount of from about 0.01 to about 2.0 percent by weight based upon
3 100 percent by weight of total composition.

1 33. A composition as defined in claim 26, wherein said medicament comprises
2 desonide in an amount of about 0.05 percent by weight based upon 100 percent by weight of total
3 composition.

1 34. A composition as defined in claim 26, wherein said medicament comprises
2 vitamin in an amount of from about 0.001 to about 0.5 percent by weight, based upon 100
3 percent by weight of total composition.

1 35. A composition as defined in claim 26, wherein said medicament comprises
2 tretinoin in an amount of from about 0.02 to about 0.1 percent by weight, based upon 100 percent
3 by weight of total composition.

1 36. A composition as defined in claim 26, wherein said medicament comprises
2 antibiotic in an amount of from about 0.01 to about 10 percent by weight based upon 100 percent
3 by weight of total composition.

1 37. A composition as defined in claim 26, wherein said medicament comprises
2 erythromycin in an amount of from about 0.1 to about 3 percent by weight based upon 100
3 percent by weight of total composition.

1 38. A method for topically delivering a medicament to an animal in need of said
2 medicament, said method comprising topically administering to the animal a composition as
3 defined in claim 11.